FILE 'HOME' ENTERED AT 10:44:15 ON 01 MAR 2007

=> file casreact

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CASREACT' ENTERED AT 10:44:33 ON 01 MAR 2007
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26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 25 Feb 2007 VOL 146 ISS 9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*************************************************************
*                                                           *
*      CASREACT now has more than 12 million reactions      *
*                                                           *
*************************************************************
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999)
provided by InfoChem, INPI data prior to 1986, and Biotransformations
database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance
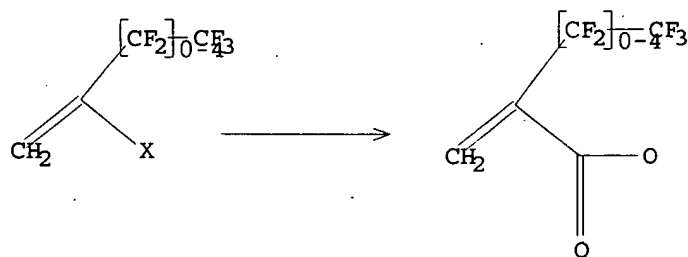identification.

=>
Uploading C:\Program Files\Stnexp\Queries\10550387.str

L1   STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 10:44:58 FILE 'CASREACT'
SCREENING COMPLETE -   18 REACTIONS TO VERIFY FROM   3 DOCUMENTS

100.0% DONE   18 VERIFIED   0 HIT RXNS   0 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 106 TO   614
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 ful
FULL SEARCH INITIATED 10:45:05 FILE 'CASREACT'
SCREENING COMPLETE -   294 REACTIONS TO VERIFY FROM   49 DOCUMENTS

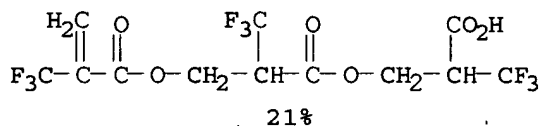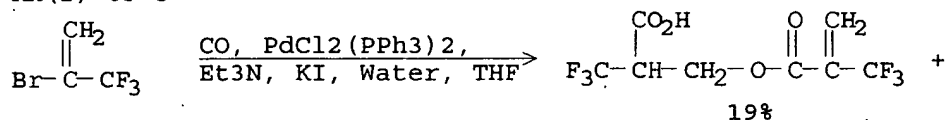100.0% DONE   294 VERIFIED   9 HIT RXNS   8 DOCS
SEARCH TIME: 00.00.01

L3   8 SEA SSS FUL L1 (9 REACTIONS)

=> d l3 1-8

L3   ANSWER 1 OF 8   CASREACT   COPYRIGHT 2007 ACS on STN
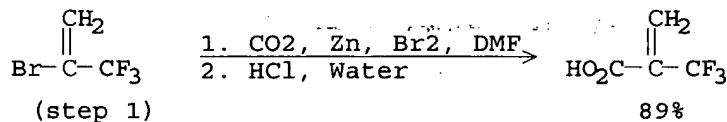
RX(2) OF 3

REF: Jpn. Kokai Tokkyo Koho, 2003261512, 19 Sep 2003
NOTE: alternative prepn. shown
CON: 8 hours, 70 - 75 deg C, 0.9 - 1 MPa

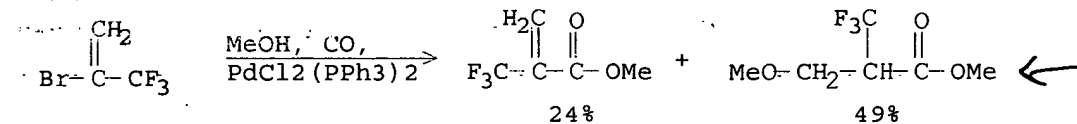L3   ANSWER 2 OF 8   CASREACT   COPYRIGHT 2007 ACS on STN

RX(1) OF 2

REF: Jpn. Kokai Tokkyo Koho, 2001288138, 16 Oct 2001

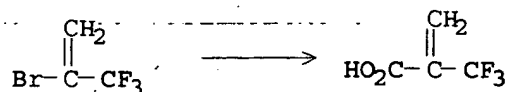L3   ANSWER 3 OF 8   CASREACT   COPYRIGHT 2007 ACS on STN
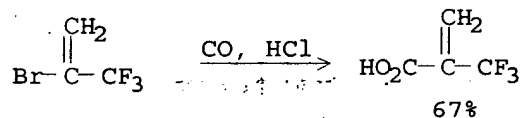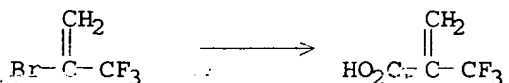

RX(1) OF 6

REF: Journal of Molecular Catalysis A: Chemical, 143(1-3), 287-295;
      1999
NOTE: ANALOGUE ALCOHOLS HAVE SIMILAR REACTOION

RX(7) OF 7

$$Br-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}} \longrightarrow HO_2C-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}}$$

81%

REF: Toso Kenkyu Hokoku, 34(1), 17-24;   1990

RX(1) OF 5

$$Br-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}} \longrightarrow HO_2C-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}}$$

REF: Jpn. Kokai Tokkyo Koho, 60161947, 23 Aug 1985, Showa

RX(2) OF 3

$$Br-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}} \longrightarrow HO_2C-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}}$$
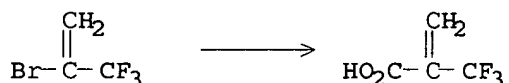
REF: Jpn. Kokai Tokkyo Koho, 60019771, 31 Jan 1985, Showa

RX(2) OF 15

$$Br-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}} \xrightarrow{CO,\ HCl} HO_2C-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}}$$

67%

REF: Synthesis, (9), 766-8;   1984

RX(5) OF 31

$$Br-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}} \longrightarrow HO_2C-\underset{\underset{CF_3}{|}}{\overset{\overset{CH_2}{||}}{C}}$$

REF: Eur. Pat. Appl., 103436, 21 Mar 1984

=>
Uploading C:\Program Files\Stnexp\Queries\0550387.str

L4   STRUCTURE·UPLOADED

=> d
L4 HAS NO ANSWERS
L4   STR

$$\begin{array}{c} CH_3[CF_2]_{0-4}CF_3 \\ \\ \underset{\underset{X}{|}}{\overset{|}{CH_2}} \quad X \end{array} \quad \longrightarrow \quad \begin{array}{c} [CF_2]_{0-4}CF_3 \\ \\ CH_2 \quad \overset{O}{\underset{\parallel}{C}}-O \end{array}$$
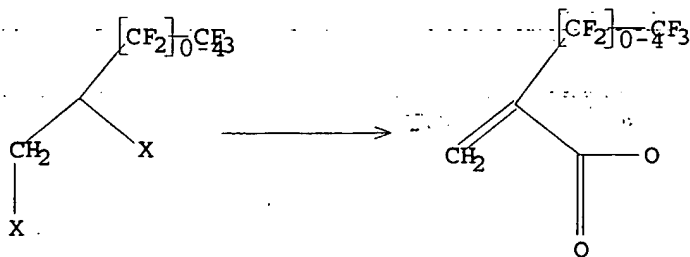
Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 10:48:11 FILE 'CASREACT'
SCREENING COMPLETE -   638 REACTIONS TO VERIFY FROM   100 DOCUMENTS

100.0% DONE   638 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 11246 TO   14274
PROJECTED ANSWERS: 0 TO   0

L5   0 SEA SSS SAM L4 (0 REACTIONS)

=> s l4 ful
FULL SEARCH INITIATED 10:48:28 FILE 'CASREACT'
SCREENING COMPLETE -   17115 REACTIONS TO VERIFY FROM   2099 DOCUMENTS

100.0% DONE   17115 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.03

L6   0 SEA SSS FUL L4 (0 REACTIONS)

Connecting via Winsock to STN

Welcome to STN International!   Enter x:x

LOGINID:SSPTAJYC1621

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

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NEWS   1               Web Page URLs for STN Seminar Schedule - N. America
NEWS   2               "Ask CAS" for self-help around the clock
NEWS   3   OCT 23      The Derwent World Patents Index suite of databases on STN
                       has been enhanced and reloaded
NEWS   4   OCT 30      CHEMLIST enhanced with new search and display field
NEWS   5   NOV 03      JAPIO enhanced with IPC 8 features and functionality
NEWS   6   NOV 10      CA/CAplus F-Term thesaurus enhanced
NEWS   7   NOV 10      STN Express with Discover! free maintenance release Version
                       8.01c now available
NEWS   8   NOV 20      CA/CAplus to MARPAT accession number crossover limit increased
                       to 50,000
NEWS   9   DEC 01      CAS REGISTRY updated with new ambiguity codes
NEWS  10   DEC 11      CAS REGISTRY chemical nomenclature enhanced
NEWS  11   DEC 14      WPIDS/WPINDEX/WPIX manual codes updated
NEWS  12   DEC 14      GBFULL and FRFULL enhanced with IPC 8 features and
                       functionality
NEWS  13   DEC 18      CA/CAplus pre-1967 chemical substance index entries enhanced
                       with preparation role
NEWS  14   DEC 18      CA/CAplus patent kind codes updated
NEWS  15   DEC 18      MARPAT to CA/CAplus accession number crossover limit increased
                       to 50,000
NEWS  16   DEC 18      MEDLINE updated in preparation for 2007 reload
NEWS  17   DEC 27      CA/CAplus enhanced with more pre-1907 records
NEWS  18   JAN 08      CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS  19   JAN 16      CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS  20   JAN 16      IPC version 2007.01 thesaurus available on STN
NEWS  21   JAN 16      WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS  22   JAN 22      CA/CAplus updated with revised CAS roles
NEWS  23   JAN 22      CA/CAplus enhanced with patent applications from India
NEWS  24   JAN 29      PHAR reloaded with new search and display fields
NEWS  25   JAN 29      CAS Registry Number crossover limit increased to 300,000 in
                       multiple databases
NEWS  26   FEB 13      CASREACT coverage to be extended
NEWS  27   Feb 15      PATDPASPC enhanced with Drug Approval numbers
NEWS  28   Feb 15      RUSSIAPAT enhanced with pre-1994 records
NEWS  29   Feb 23      KOREAPAT enhanced with IPC 8 features and functionality
NEWS  30   Feb 26      MEDLINE reloaded with enhancements
NEWS  31   Feb 26      EMBASE enhanced with Clinical Trial Number field
NEWS  32   Feb 26      TOXCENTER enhanced with reloaded MEDLINE
NEWS  33   Feb 26      IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS  34   Feb 26      CAS Registry Number crossover limit increased from 10,000
                       to 300,000 in multiple databases

NEWS EXPRESS   NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS     STN Operating Hours Plus Help Desk Availability
```

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:28:18 ON 01 MAR 2007

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 10:28:33 ON 01 MAR 2007
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 28 FEB 2007   HIGHEST RN 923894-67-1
DICTIONARY FILE UPDATES: 28 FEB 2007   HIGHEST RN 923894-67-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10550387.str

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> file casreact
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.45   0.66

=>
Uploading C:\Program Files\Stnexp\Queries\10550387.str

L2   STRUCTURE UPLOADED

=> d 12
L2 HAS NO ANSWERS
L2   STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 12
SAMPLE SEARCH INITIATED 10:29:57 FILE 'CASREACT'
SCREENING COMPLETE -   0 REACTIONS TO VERIFY FROM   0 DOCUMENTS

100.0% DONE   0 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 0 TO   0
PROJECTED ANSWERS: 0 TO   0

L3   0 SEA SSS SAM L2 (0 REACTIONS)

=> s 12 sss full
FULL SEARCH INITIATED 10:30:19 FILE 'CASREACT'
SCREENING COMPLETE -   0 REACTIONS TO VERIFY FROM   0 DOCUMENTS

100.0% DONE   0 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.05

L4   0 SEA SSS FUL L2 (0 REACTIONS)

=> d scan

```
L4 HAS NO ANSWERS


=>
Uploading C:\Program Files\Stnexp\Queries\10550387-a.str

L5        STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5               STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.


=> s l5
SAMPLE SEARCH INITIATED 10:32:34 FILE 'CASREACT'
SCREENING COMPLETE -        0 REACTIONS TO VERIFY FROM        0 DOCUMENTS

100.0% DONE        0 VERIFIED        0 HIT RXNS               0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED VERIFICATIONS:          0 TO         0
PROJECTED ANSWERS:                0 TO         0

L6           0 SEA SSS SAM L5 (     0 REACTIONS)

=> s l5 full
FULL SEARCH INITIATED 10:32:45 FILE 'CASREACT'
SCREENING COMPLETE -        0 REACTIONS TO VERIFY FROM        0 DOCUMENTS

100.0% DONE        0 VERIFIED        0 HIT RXNS               0 DOCS
SEARCH TIME: 00.00.01

L7           0 SEA SSS FUL L5 (     0 REACTIONS)

=> d scan
L7 HAS NO ANSWERS


=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
```
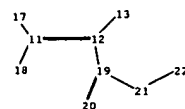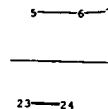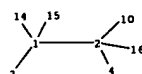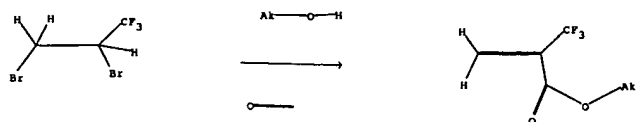
chain nodes :
    1   2   3   4   5   6   7   10   11   12   13   14   15   16   17   18   19   20   21   22   23
    24
chain bonds :
    1-2   1-3   1-14   1-15   2-4   2-10   2-16   5-6   6-7   11-12   11-17   11-18   12-13
    12-19   19-20   19-21   21-22   23-24
exact/norm bonds :
    5-6   19-20   19-21   21-22   23-24
exact bonds :
    1-2   1-3   1-14   1-15   2-4   2-10   2-16   6-7   11-12   11-17   11-18   12-13
    12-19

Match level :
    1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   7:CLASS   10:CLASS
    11:CLASS   12:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:CLASS
    18:CLASS   19:CLASS   20:CLASS   21:CLASS   22:CLASS   23:CLASS   24:CLASS
fragments assigned product role:
    containing 11
fragments assigned reactant/reagent role:
    containing 1
    containing 5
    containing 23

chain nodes :
    1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17
chain bonds :
    1-2   1-3   1-9   1-10   2-4   2-5   2-11   6-7   6-12   6-13   7-8   7-14   14-15
    14-16   16-17
exact/norm bonds :
    14-15   14-16   16-17
exact bonds :
    1-2   1-3   1-9   1-10   2-4   2-5   2-11   6-7   6-12   6-13   7-8   7-14

Match level :
    1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   7:CLASS   8:CLASS
    9:CLASS   10:CLASS   11:CLASS   12:CLASS   13:CLASS   14:CLASS   15:CLASS
    16:CLASS   17:CLASS
fragments assigned product role:
    containing 6
fragments assigned reactant/reagent role:
    containing 1

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	207235	"acrylic acid ester" or "acrylic acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:35
L2	2	l1 and perfluoroalkylethene	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:36
L3	807	l1 and alcohol and palladium and catalyst and "carbon monoxide" and base	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:38
L4	584	l3 and inorganic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:38
L5	119	l3 and "inorganic base"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:38
L6	316	l3 and fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:38
L7	67	l5 and fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:39
L8	607	(560/227).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2007/03/01 14:39

L9	669	(560/226).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2007/03/01 14:40
L10	124	(562/520).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2007/03/01 14:40
L11	1299	l8 or l9 or l10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:40
L12	1	l11 and l7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:40
L13	1428	l11 andl6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:40
L14	1	l11 and l6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:41
L15	4	l11 and l3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:41
L16	106	l11 and l1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:41

EAST Search History

S1	2	("4855487").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/01 14:35